

Square Roots and Irrational Numbers (For use after Section 11-3)

Find the value.

1. $\sqrt{36}$ _____ 2. $-\sqrt{49}$ _____ 3. $\sqrt{1}$ _____

4. $-\sqrt{16}$ _____ 5. $\sqrt{81}$ _____ 6. $-\sqrt{100}$ _____

7. $\sqrt{42}$ _____ 8. $\sqrt{102}$ _____ 9. $-\sqrt{62}$ _____

Use the table to find the value.

10. $\sqrt{55}$ _____ 11. $-\sqrt{30}$ _____

12. $\pm\sqrt{50}$ _____ 13. $\pm\sqrt{25}$ _____

Round to one decimal place.

14. $\sqrt{35}$ _____ 15. $-\sqrt{60}$ _____

16. $-\sqrt{45}$ _____ 17. $\sqrt{40}$ _____

Number	Positive Square Root
N	\sqrt{N}
25	5
30	5.477
35	5.916
40	6.325
45	6.708
50	7.071
55	7.416
60	7.746

Is the number rational or irrational?

18. 9 _____ 19. $\sqrt{9}$ _____ 20. $\frac{1}{4}$ _____

21. $\sqrt{7}$ _____ 22. 3.519 _____ 23. $\frac{\pi}{2}$ _____

24. $-\sqrt{12}$ _____ 25. $-\sqrt{81}$ _____ 26. $5\frac{1}{7}$ _____

27. 0 _____ 28. 2.62 _____ 29. $\sqrt{27}$ _____